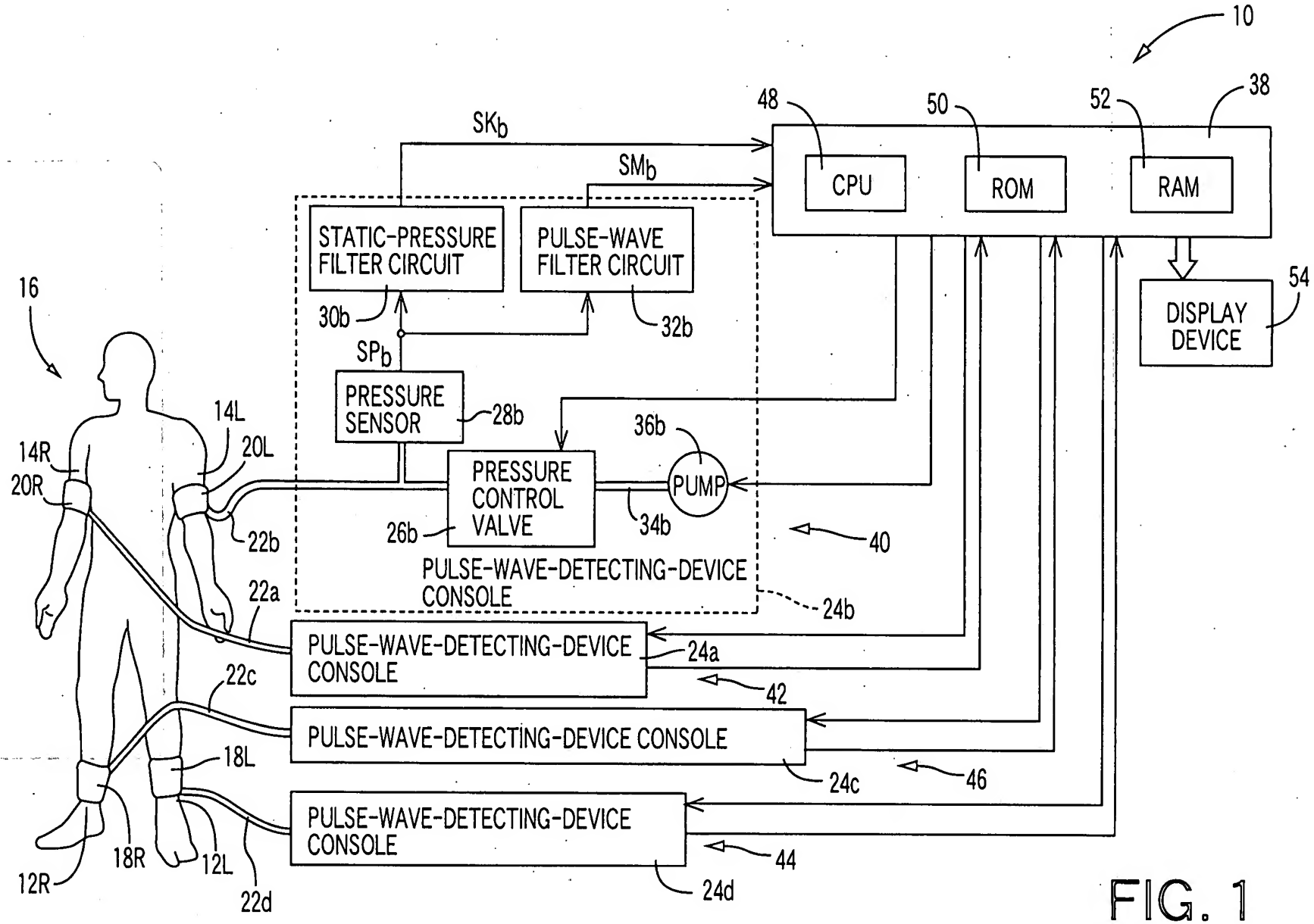
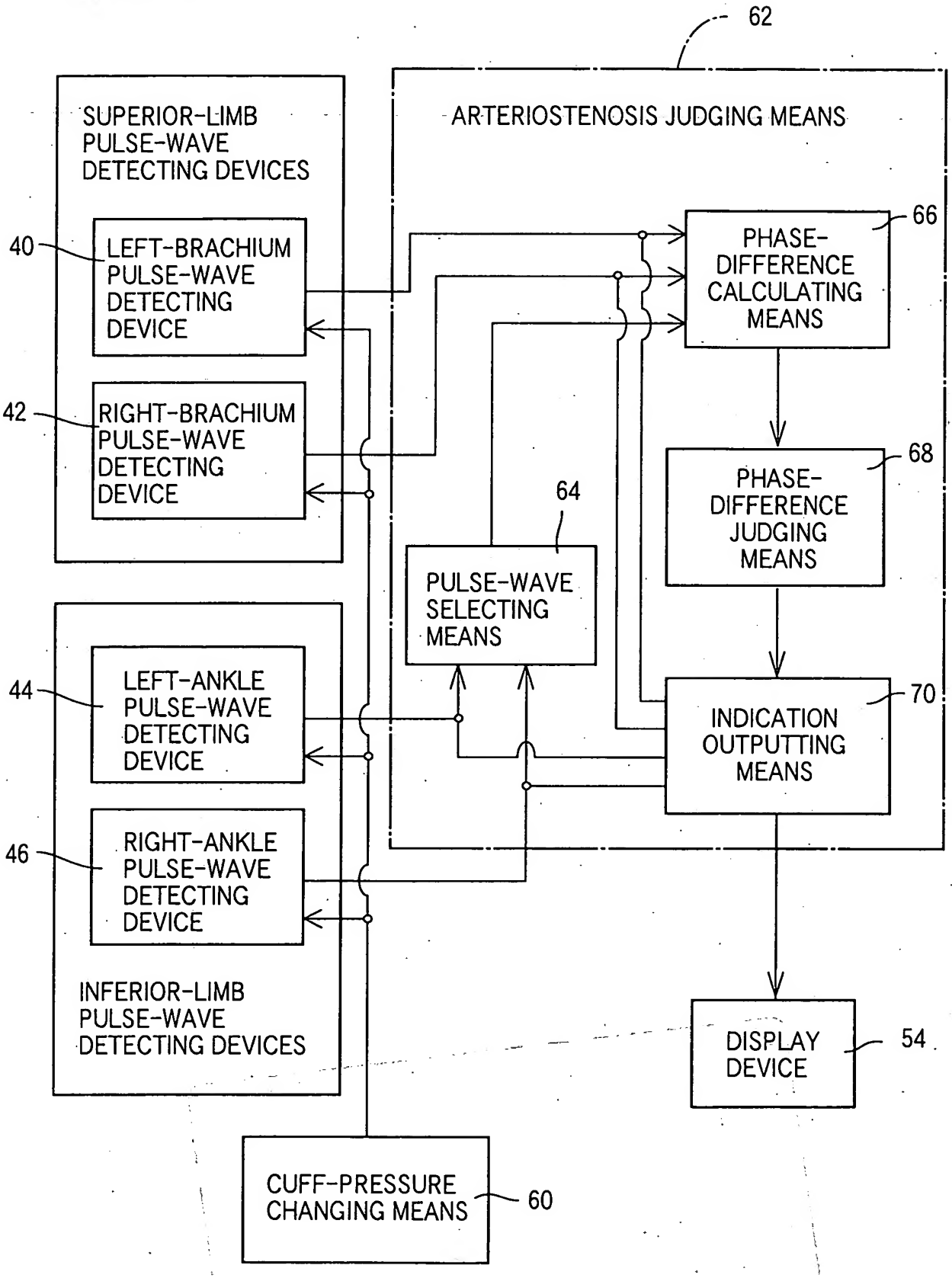

10
38
48
50
52
CPU
ROM
RAM
SKb
SMb
STATIC-PRESSURE FILTER CIRCUIT
PULSE-WAVE FILTER CIRCUIT
30b
32b
SPb
PRESSURE SENSOR
28b
36b
PUMP
PRESSURE CONTROL VALVE
26b
34b
40
PULSE-WAVE-DETECTING-DEVICE CONSOLE
24b
DISPLAY DEVICE
54
16
14L
14R
20L
20R
22b
22a
PULSE-WAVE-DETECTING-DEVICE CONSOLE
24a
42
22c
PULSE-WAVE-DETECTING-DEVICE CONSOLE
24c
46
18L
18R
12L
12R
22d
PULSE-WAVE-DETECTING-DEVICE CONSOLE
44
24d

FIG. 1

FIG. 2


62
ARTERIOSTENOSIS JUDGING MEANS
SUPERIOR-LIMB PULSE-WAVE DETECTING DEVICES
40
LEFT-BRACHIUM PULSE-WAVE DETECTING DEVICE
42
RIGHT-BRACHIUM PULSE-WAVE DETECTING DEVICE
66
PHASE-DIFFERENCE CALCULATING MEANS
68
PHASE-DIFFERENCE JUDGING MEANS
64
PULSE-WAVE SELECTING MEANS
44
LEFT-ANKLE PULSE-WAVE DETECTING DEVICE
46
RIGHT-ANKLE PULSE-WAVE DETECTING DEVICE
70
INDICATION OUTPUTTING MEANS
INFERIOR-LIMB PULSE-WAVE DETECTING DEVICES
DISPLAY DEVICE
54
CUFF-PRESSURE CHANGING MEANS
60

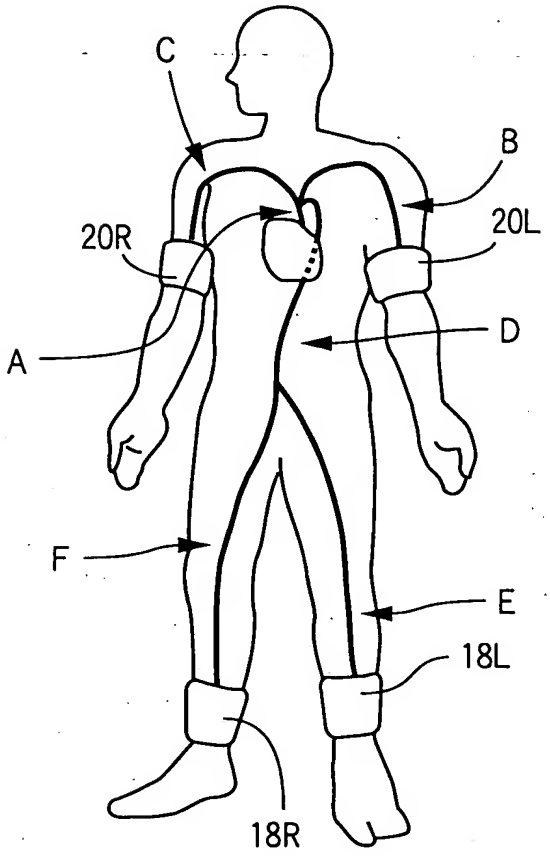
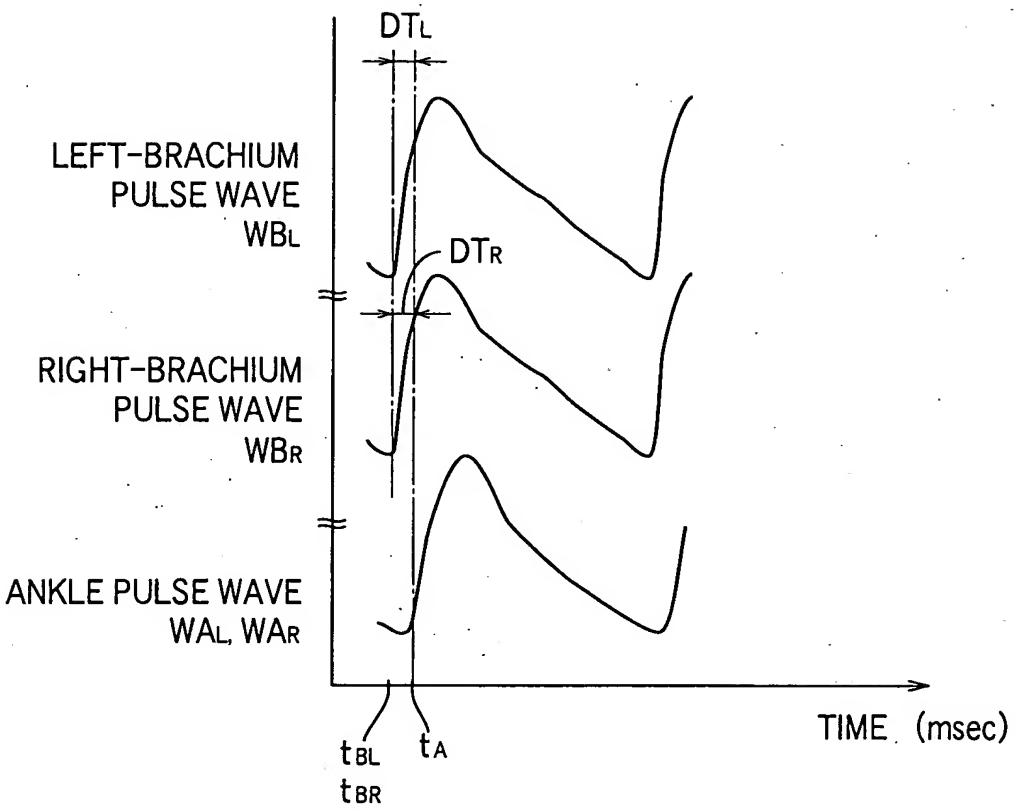


FIG. 3

FIG. 4


DTL
LEFT-BRACHIUM
PULSE WAVE
WBL
DTR
RIGHT-BRACHIUM
PULSE WAVE
WBR
ANKLE PULSE WAVE
WAL, WAR
TIME (msec)
tBL
tBR
tA

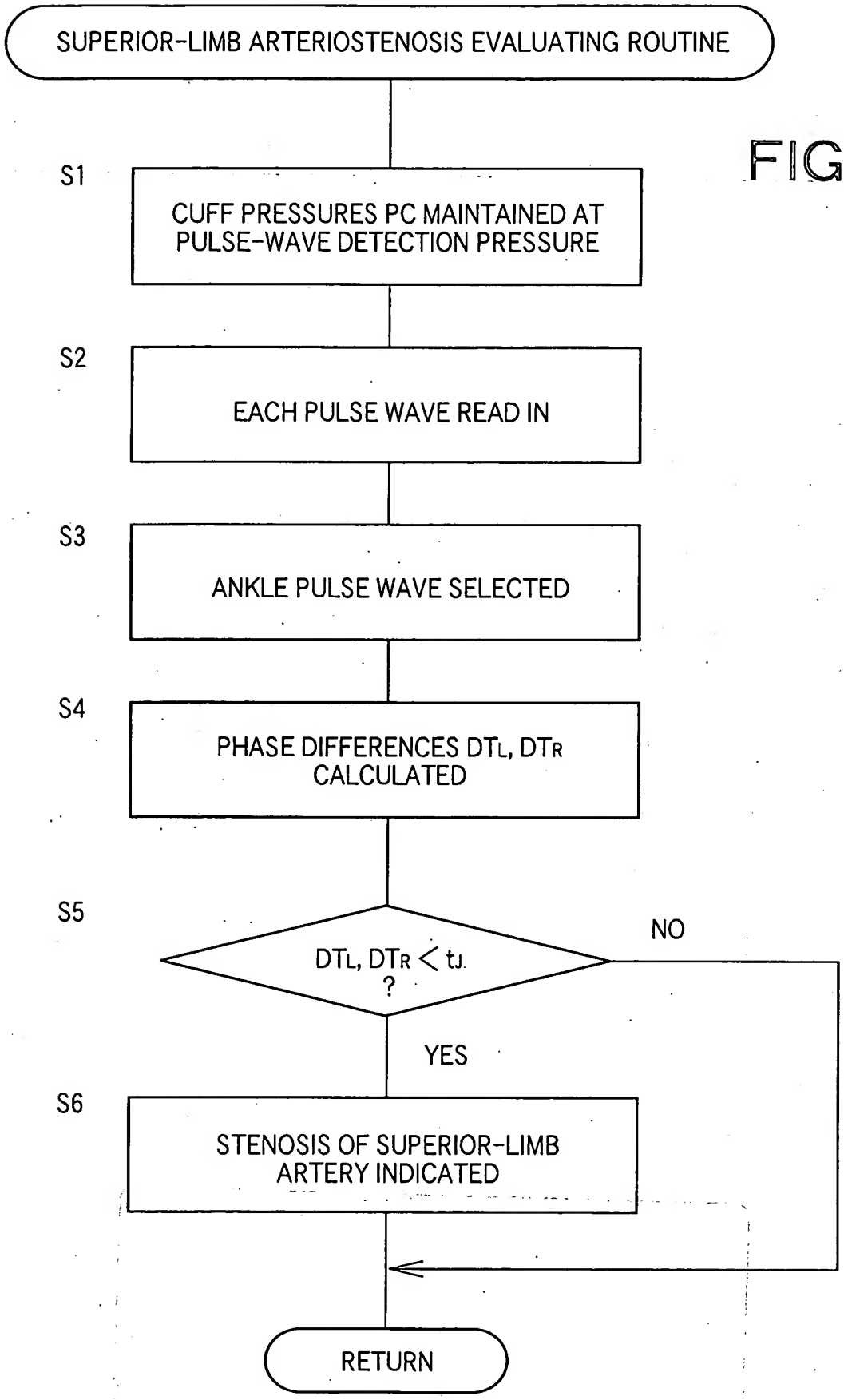

SUPERIOR-LIMB ARTERIOSTENOSIS EVALUATING ROUTINE
S1
CUFF PRESSURES PC MAINTAINED AT PULSE-WAVE DETECTION PRESSURE
S2
EACH PULSE WAVE READ IN
S3
ANKLE PULSE WAVE SELECTED
S4
PHASE DIFFERENCES DTL, DTR CALCULATED
S5
DTL, DTR < tJ. ?
NO
YES
S6
STENOSIS OF SUPERIOR-LIMB ARTERY INDICATED
RETURN

FIG. 5